

Vista™ Welding Helmets



**SEE MORE.
DO MORE.™**

Large view sizes, full-featured cartridges, hot new graphics and a bag full of included accessories. . . that's Vista™ Welding Helmets from Lincoln Electric.



More Visibility

- One of the industry's largest view sizes-up to 32% larger than the competition!
- Choice of three view sizes.
- Protects against harmful ultra-violet and infra-red light.

More Convenient

- No on/off switches to remember.
- Solar powered, no batteries to change, no alkaline corrosion.

More Control

- Variable Shade 9-13.
- Variable Sensitivity – TIG/Grind mode.
- Variable Delay – Great for tacking and high amperage welding.

More Features

- 4 independent arc sensors.
- Light to Dark in 1/10,000 second.
- Low 5 amp TIG threshold.

Great Bonus Items!

Personal-Pak™



All Helmets Come With Great Bonus Items Valued at over \$25 Including:

- Sport-pak style helmet bag with drawstring, soft lining, zip up pocket and backpack straps.
- Lincoln Electric® bandana.
- Helmet Owner ID.

3000



2000



1000



Choose from 3 different view sizes.

Pick Your View Size:	Pick Your Style:			
	Black	NASCAR®	Patriot	Heavy Metal
Vista™ 3000	K2604-1	K2604-2	K2604-3	K2604-4
Vista™ 2000	K2603-1	K2603-2	K2603-3	K2603-4
Vista™ 1000	K2602-1	K2602-2	K2602-3	K2602-4

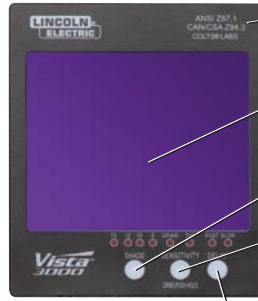


OUTSIDE CARTRIDGE FEATURES



- Four Independent Arc Sensors** – Helps avoid blind spots that prevent auto-darkening.
- BIG View Size** – 32% Larger than the leading competition.
- Lower Cost Options** – Lower your cost with Vista™ 1000 or 2000 smaller view sizes without losing any cartridge features.
- Two Year No Hassle Warranty** – Return your helmet or cartridge for a replacement in the event of warranty failure.
- Solar-Powered** – No Batteries to replace. No On/Off switch to remember.

INSIDE CARTRIDGE FEATURES



- ANSI and CSA Certification** – Certified 3rd party testing of cartridge design.
- Top Quality LCD Optics** – Deliver a clear view.
- Variable Shade Lens Shade** – 9 up to 13.
- Variable Sensitivity** – 3 Modes:
 - **Weld Mode** – For Normal Welding Shades 9 up to 13.
 - **Grind Mode** – Use your mask for pre- or post-weld grinding. – Maintains the ADF lens at Shade 5.
 - **TIG Mode** – Boosts arc sensing to detect low amp TIG arcs in the 5-20 amp range.
- Variable Delay** – Vary the length of transition back to light state after welding. 2 Modes:
 - **Fast** – For Normal Welding – 0.1 seconds
 - **Slow** – 2.0 seconds

SHELL FEATURES



Change Cover/Spatter Plates in Seconds

- Easy to change.
- Reduce down time.
- Change from the front of the helmet.



Magnifying Cheater Lens Capable

- Easy to add.
- Works with existing equipment.
- Allows you to work without cumbersome eyewear.



Soft and Absorbent Sweatband

- Keeps you cool and comfortable.
- Positive Velcro™ attachment.



Push-N-Turn™ Headgear

- Just push and turn to set.



Patent-Pending Tilt Mechanism

- Allows you to adjust viewing angle and helmet down stop.
- Stops your helmet in exactly the right place.



Positive Up-Lock™

- Holds the helmet up until you're ready to weld.
- Easy to release.
- Locks it in tight.

SPECIFICATIONS

	VISTA™ 3000	VISTA™ 2000	VISTA™ 1000
View Size	3-7/8" x 3-1/8" (98mm x 81mm)	3-7/8" x 1-7/8" (96mm x 48mm)	3-3/4" x 1-3/8" (94mm x 35mm)
Cartridge Size	5-1/4" x 4-1/2" (133mm x 114mm)		
Light to Dark Speed:	0.1 Milliseconds		
Light State:	3		
Dark State:	9-13		
Dark to Light Delay:	0.1 & 2.0 Seconds		
Variable Sensitivity:	Grind/TIG		
TIG Sensitivity	5 Amps		
Arc Sensors:	4		
Power Supply:	Solar Panels		
Eye Protection:	EV/IR to Shade 16		
Enclosure:	Waterproof and Dustproof		
Operating Temperature:	+14° F (-10° C) to +148° F (64° C)		
Storage Temperature:	Room Temperature		
Compliance:	ANSI Z87.1, CSA Z94.3		
Warranty	2 Year		



GUIDE FOR SHADE NUMBERS

OPERATION	ELECTRODE SIZE in. (mm)	ARC CURRENT (AMPERES)	MINIMUM PROTECTIVE SHADE	SUGGESTED ⁽¹⁾ SHADE NO. (COMFORT)
Shielded metal arc welding (SMAW)	Less than 3/32 (2.4) 3/32 - 5/32 (2.4-4.0) 5/32 - 8/32 (4.0-6.4) More than 1/4 (6.4)	Less than 60	7	-
		60-160	8	10
		160-250	10	12
		250-550	11	14
Gas metal arc welding (GMAW) and flux cored arc welding (FCAW)		Less than 60	7	-
		60-160	10	11
		160-250	10	12
		250-500	10	14
Gas tungsten arc welding (GTAW)		Less than 50	8	10
		50-150	8	12
		150-500	10	14
Air carbon arc cutting (CAC-A)	(Light) (Heavy)	Less than 500	10	12
		500-1000	11	14
Plasma arc cutting (PAC)		Less than 20	4	4
		20-40	5	5
		40-60	6	6
		60-80	8	8
		80-300	8	9
		300-400	9	12
		400-800	10	14
Torch brazing (TB)		-	-	3 or 4
Torch soldering (TS)		-	-	2
Carbon arc welding (CAW)		-	-	14
PLATE THICKNESS				
	in.	mm		
Oxyfuel gas welding (OFW)	Light	Under 3		4 or 5
	Medium	3 to 13		5 or 6
	Heavy	Over 13		6 or 8
Oxygen cutting (OC)	Light	Under 25		3 or 4
	Medium	25 to 150		4 or 5
	Heavy	Over 150		5 or 6

⁽¹⁾ As a rule of thumb, start with a shade that is too dark, then go to a lighter shade which gives sufficient view of the weld zone without going below the minimum. In oxyfuel gas welding or cutting where the torch produces a high yellow light, it is desirable to use a filter lens that absorbs the yellow or sodium line the visible light of the (spectrum) operation

Data from ANSI Z49.1-2005

Shade numbers are given as a guide only and may be varied to suit individual needs.



ORDERING INFORMATION

GENERAL OPTIONS



Vista™ 3000 Auto-Darkening Cartridge
Upgrade or replace your lens. Features 9-13 Variable Shade, Variable Sensitivity (Grind/TIG/Standard) and Variable Delay. Standard cartridge carrier size 5-1/4" x 4-1/2" (133 x 114 mm) with 3-7/8" x 3-1/8" (98 x 81 mm) View size.
Order K2690-3



Vista™ 2000 Auto-Darkening Cartridge
Upgrade or replace your lens. Features 9-13 Variable Shade, Variable Sensitivity (Grind/TIG/Standard) and Variable Delay. Standard cartridge carrier size 5-1/4" x 4-1/2" (133 x 114 mm) with 3-7/8" x 1-7/8" (96 x 48 mm) View size.
Order K2690-2



Vista™ 1000 Auto-Darkening Cartridge
Upgrade or replace your lens. Features 9-13 Variable Shade, Variable Sensitivity (Grind/TIG/Standard) and Variable Delay. Standard cartridge carrier size 5-1/4" x 4-1/2" (133 x 114 mm) with 3-3/4" x 1-3/8" (94 x 35 mm) View size.
Order K2690-1



Vista™ Helmet Replacement Ratchet Headgear Kit
Includes headgear, knobs, screws, washers and adjustment lever.
Order KP2609-1



Vista™ Deluxe Sweatband - 2 Pack
Stay cool and comfortable with cotton padded sweatbands featuring firm velcro wrap-tabs.
Order KP2081-5B1



Clear Polycarbonate Cover Lens - 5 Pack
Impact-resistant safety lens in standard 5-1/4" x 4-1/2" (133 x 114 mm) size. Conforms to ANSI Z87.1
Order KP2324-1B1

VISTA™ WELDING HELMETS ORDER FORM

PRODUCT DESCRIPTION	ORDER NUMBER	QUANTITY	PRICE
VISTA™ 1000 BLACK	K2602-1		
VISTA™ 1000 NASCAR®	K2602-2		
VISTA™ 1000 PATRIOT	K2602-3		
VISTA™ 1000 HEAVY METAL	K2602-4		
VISTA™ 2000 BLACK	K2603-1		
VISTA™ 2000 NASCAR®	K2603-2		
VISTA™ 2000 PATRIOT	K2603-3		
VISTA™ 2000 HEAVY METAL	K2603-4		
VISTA™ 3000 BLACK	K2604-1		
VISTA™ 3000 NASCAR®	K2604-2		
VISTA™ 3000 PATRIOT	K2604-3		
VISTA™ 3000 HEAVY METAL	K2604-4		
RECOMMENDED GENERAL OPTIONS			
Vista™ Helmet Replacement Ratchet Headgear Kit	KP2609-1		
Vista™ Deluxe Sweatband - 2 Pack	KP2081-5B1		
Clear Polycarbonate Cover Lens - 5 Pack	KP2324-1B1		
Vista™ 1000 Auto-Darkening Cartridge	K2690-1		
Vista™ 2000 Auto-Darkening Cartridge	K2690-2		
Vista™ 3000 Auto-Darkening Cartridge	K2690-3		
TOTAL:			

CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company® is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

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Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.com for any updated information.



THE LINCOLN ELECTRIC COMPANY

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